

Product datasheet for **MG204679**

Kynu (BC026950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kynu (BC026950) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kynu
Synonyms:	4432411A05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204679 representing BC026950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTTCGCCTCTTGAGCTTCCAGTTGATGCAGTGCGGCGCATCGCGGCTGAACTCAATTGTGACC
CAACAGATGAGAGGGTTGCTCTCCGCTTGGATGAGGAAGATAAACTGAGTCATTTAGGAACTGTTTTTA
TATTCAAAAATGCGGGACCTGCCTTCAATTGATCTATCTTTAGTGAGTGAGGATGATGATGCCATCTAT
TTCCTGGGAAATTCCTTGGCCTCAACCGAAAATGGTTAGGACATACCTGGAGGAAGAACTAGATAAGT
GGCCAAGATGGGAGCCTATGGCCATGATGTAGGCAAACGCCCTTGGATTGTAGGGGATGAGAGTATTGT
AAGCCTTATGAAGGACATTGTAGGAGCCATGAGAAAGAAATAGCTCTAATGAATGCTTTGACTATTAAT
TTACATCTCCTGCTGTTATCATTCTTTAAGCCTACTCCAAGCGGCACAAAATTCTTCTAGAAGCCAAA
CCTTCCCTTCTGATCATTATGCTATTGAGTCACAGATTCAACTTCACGGACTTGTGTTGAGAAAAGTAT
GCGGATGGTAAAGCCACGAGAGGGGAAGAGACCTTAAGGATGGAGGACATACTGGAAGTAAATCGAGGAG
GAAGGAGACTCGATCGCCGTGATCCTGTTCAAGTGGGCTGCACTTTTATACTGGACAGCTGTTCAACATTC
CTGCCATAACAAAAGCTGGACATGCAAAGGGCTGTTTTGTTGGCTTTGACCTAGCACATGCAAGTTGAAA
TGTTGAACTCCGCTTACATGACTGGGGTGTGACTTTGCCTGCTGGTGTTCCTATAAGTATTTAAATTCA
GGAGCTGGAGGTCTGGCTGGTGCCTTTGTCCACGAGAAACATGCTCATACTGTCAAGCCTGCGATGGAGC
ACCTGCAGTGTGATATCAAGCTGAAAGGCAACCTGTTTGCATATGGACAGAGGAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204679 representing BC026950
 Red=Cloning site Green=Tags(s)

MEPSPLELPVDAVRRIAAELNCDPTDERVALRLDEEDKLSHFRNCFYIPKMRDLPSIDLVLVSEDDDAIY
 FLGNSLGLQPKMVRTYLEEELDKWAKMGAYGHDVGKRPWIVGDESI VSLMKDIVGAHEKEIALMNALTIN
 LHLLLLSFFKPTPKRHKILLEAKAFPSDHYAIESQIQLHGLDVEKSMRMVKPREGEETLRMEDILEVIEE
 EGDSTIAVILFSGLHFYTGQLFNIPAITKAGHAKGCFVGFDLAHAVGNVELRLHDWGVDFACWCSYKYLNS
 GAGGLAGAFVHEKHAHTVKPAMDDLQCDIKLKGNLFAYGQRRK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC026950

ORF Size: 971 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC026950](#), [AAH26950](#)

RefSeq Size: 2800 bp

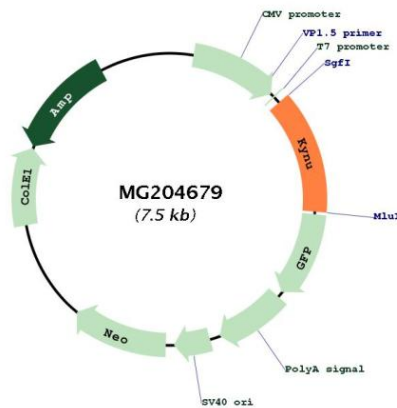
RefSeq ORF: 971 bp

Locus ID: 70789

Cytogenetics: 2 B

Gene Summary: Catalyzes the cleavage of L-kynurenine (L-Kyn) and L-3-hydroxykynurenine (L-3OHKyn) into anthranilic acid (AA) and 3-hydroxyanthranilic acid (3-OHAA), respectively. Has a preference for the L-3-hydroxy form. Also has cysteine-conjugate-beta-lyase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204679